

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_130922
Title of the Manuscript:	The Role of Smart Farming Technologies in Mitigating Climate Change and Enhancing Agricultural Sustainability
Type of the Article	Review Article

PART 1: Comments

	Reviewer’s comment	Author’s Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript addresses a crucial issue in modern agriculture—how smart farming technologies can mitigate climate change and enhance agricultural sustainability. With rising global food demands and increasing climate variability, integrating digital technologies like IoT, AI, and precision farming is essential for resource optimization and greenhouse gas reduction. The study provides valuable insights into how these technologies improve productivity, reduce emissions, and enhance climate resilience. The paper is relevant to policymakers, researchers, and practitioners aiming to drive sustainable agricultural transformation.	
Is the title of the article suitable? (If not please suggest an alternative title)	yes	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	<p>The abstract is well-structured, covering the study's objectives, methodology, and key findings. However, it could be improved by:</p> <ul style="list-style-type: none"><li>Briefly mentioning the primary barriers to adopting smart farming technologies (e.g., cost, digital divide).</li><li>Highlighting specific case studies or data points that demonstrate the effectiveness of these technologies.</li><li>Refining the conclusion to emphasize the practical implications for different stakeholders.</li></ul>	
Is the manuscript scientifically, correct? Please write here.	Yes, the manuscript is scientifically sound and presents a well-documented analysis of smart farming technologies. The study references credible sources and employs a structured methodology.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	<p>The manuscript cites an extensive range of references, many of which are recent and relevant. However, incorporating more studies from 2022–2024 on AI applications in smart farming and real-world case studies would strengthen the paper. Suggested references include:</p> <ol style="list-style-type: none"><li>Research on the role of deep learning in precision agriculture.</li><li>Studies examining the economic feasibility of smart farming in developing countries.</li></ol>	
Is the language/English quality of the article suitable for scholarly communications?	yes	
Optional/General comments	<ul style="list-style-type: none"><li>The paper could benefit from additional figures or graphs illustrating smart farming's impact on climate mitigation.</li><li>A discussion on policy recommendations for governments and international organizations would enhance the practical significance of the study.</li><li>Consider adding a section on future research directions, highlighting gaps that need further exploration.</li></ul>	

Review Form 3

PART 2:

	Reviewer’s comment	Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Udaya Kumar Addanki
Department, University & Country	Gayatri Vidya Parishad College of Engineering for Women, India